Claims

1.   A space truss characterized by a rectangular upper
lattice and a rectangular lower lattice, each composed of
5   chord members in vertical directions and in horizontal
directions, said chord members intersecting with each other,
and diagonal members coupling intersection points of said
chord members in both of said lattices mutually,
         wherein said chord members in the vertical directions
10   and in the horizontal directions in both of said lattices are
formed by using long rod members formed to have a length
twice as long as a distance between the intersection points,
said long rod members including coupling portions at both
ends and at centers of said rod members, as main members, and
15   by arranging a plurality of long rod members in the vertical
directions and the horizontal directions, and by coupling
ends of long rod members intersecting with a long rod member
to a center of said latter long rod member at each of said
intersection points, and by coupling a short rod member with
20   an end of a chord member at which the length of said long rod
members is too long in place of said long rod member, said
short rod member formed to have a length equal to the
distance between the intersecting points, said short rod
member including coupling portions at both ends thereof,
25   wherein said diagonal members are formed by using bent
rod members shaped in a letter V, said bent rod members
having coupling portions at both ends and at centers of said
rod members, as main members, and by arranging a plurality of
bent rod members in a state of intersecting to each other and
30   of intersecting with said chord members of both of said
lattices diagonally at positions of said respective
intersecting points, and by coupling ends of bent rod members
intersecting with a bent rod member to a center of said
latter bent rod member at each of said intersection points,

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and by coupling a straight line rod member with an end of a
diagonal member at which the length of said bent rod members
is too long in place of said bent rod member, said straight
line rod member formed to have a length equal to one side of

5   the letter V of said bent rod members, said straight line rod
member including coupling portions at both ends thereof.

2.   The space truss according to claim 1, wherein said
coupling portion at the center and said coupling portions at

10   ends of each of said rod members are severally formed by
flattening parts of said rod member.

3.   The space truss according to claim 2, wherein said
coupling portions at the centers and said coupling portions

15   at the ends mutually have the same size, and said coupling
portions of each of said rod members of said chord members in
the vertical direction and in the horizontal direction and
said diagonal members are laid on tops of others directly or
with a spacer at each intersection points of both of said

20   lattices, and said chord members and said diagonal members
are coupled with one another by being fastened with bolts and
nuts with washers arranged on both the sides of said coupling
portions.

25 4.   The space truss according to claim 2, wherein sizes of
said coupling portions of the ends of each of said rod
members are a half of a size of said coupling portion at the
center of said rod member, and a reinforcing member is
integrally provided on one side of each of said coupling

30   portions, said reinforcing member also functioning as a
spacer, and coupling portions of ends of two rod members of
said chord members in the vertical directions and in the
horizontal directions and said diagonal members, said two rod
members intersecting with a rod member, are directly laid on

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the top of said coupling portion at a center of said latter
rod member in a state of being placed opposite to each other
at each of said intersection points of both of said lattices,
and each of said coupling members are mutually coupled by

5   being fastened by a plurality of bolts and nuts with washers
disposed on both sides of said coupling members.

5.   The space truss according to any one of claims 1-4,
wherein at each of inside intersection points except

10   intersection points positioned at periphery portions of both
of said lattices among each of said intersection points at
which said chord members and said diagonal members are
coupled to one another, a coupling numbers of said rod
members of said chord members and said diagonal members are

15   severally three, and said chord members and said diagonal
members are mutually coupled at each of said intersection
points in the inside by the same coupling structure.